

# AEMO Project Status Update

Presented to WA Electricity Consultative Forum

18 August 2021

# Status Update – Live Projects

- G Project is continuing within agreed tolerances.
- A Project is at risk. Monitor and apply corrective action as required
- R Project is not meeting requirements. Corrective action required
- C Project is New or Complete

Project	Status	Commentary	Driver
WEM Reform (Foundation Reg Frameworks)	<span style="color: orange;">A</span> Time	<ul style="list-style-type: none"> <li>AEMO has continued to support EPWA's market/regulatory design efforts with gazettal of Tranche 4a and consultation of Tranche 4b taking place since last WAECF. Tranche 5 contains the registration framework and non co-optimised essential system services - targeted for the December gazettal</li> <li>AEMO has eight of thirteen implementation projects in execution (GPS, Constraints, WEMDE, Real Time Market Submissions, System Planning, Digital Platform, Settlements and RCM)</li> <li>Market facing Go Lives successful for both GPS (July 2021) and Settlements Enhancements Release 1 (July 2021). Settlement Enhancements Release 2 planned for September 2021. Real Time Market Submissions (September 2021) – development of internal Constraints Solution to conclude September 2021.</li> <li>WEMDE (<i>Wholesale Energy Market Dispatch Engine</i>) UI, Registration, Settlements Reform, RCM Phase 2 (NAQ), and STEM projects due to conclude initiation and planning in Q3, together with multiple System Planning projects (Outage, Commission Test and Forecast Integration as the first 3).</li> <li>RCM Phase 1 (e.g. for CRC Applications in December 2021) on track for market test in October. WEMDE Dispatch Engine development progressing well with continual integration model.</li> <li>AEMO has continued to engage on implementation, readiness and WEM Procedures via:               <ul style="list-style-type: none"> <li>WRIG and WRIG-IT held on 5<sup>th</sup> of August.</li> <li>Upcoming WRIG and WRIG-IT scheduled for the 26<sup>th</sup> of August.</li> <li>WRIG-IT scheduled on the 9<sup>th</sup> and 23<sup>rd</sup> of September covering RTMS and RCM market elements.</li> <li>WRIG scheduled on the 30<sup>th</sup> of September.</li> </ul> </li> </ul>	<i>This is AEMO's program to prepare for and implement constrained network access and WEM reforms in line with WA Government's Energy Transformation Strategy.</i>

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Reserve Capacity Mechanism (RCM) Pricing	<span style="color: green;">G</span>	<i>Separate Agenda item</i>	<i>Implementation of the RCM Pricing Rule Changes gazetted by the Minister of Energy on the 22 February 2020.</i>
Power Systems Operations (PSO)	<span style="color: orange;">A</span> Time	<p>PSO has been progressing well, closing in on our proposed go-live of 31 August.</p> <ul style="list-style-type: none"> <li>Alarms are being refined (filtered) based on controller feedback</li> <li>Automated Generation Control (AGC) testing has progressed well with most of the facilities completing their testing. A single facility is outstanding due to availability but will be covered off shortly. This will then allow for the progress to Area Tuning, with the 8-hour Phase 1 test scheduled for this week. The intention is to then pause this process until the control room is prepared/confident for an AGC cutover before we progress to the 24-hour Phase 2 tuning activity.</li> <li>Controller training is progressing with all users scheduled to complete stage 5 (AGC) training by 20 August. Stage 6 (Alarms) has been agreed to be an on-shift exercise but will require SME support.</li> </ul>	<p><i>Power System Operations (PSO) project will establish a new Energy Management System and Demand Forecasting System for the WEM.</i></p> <p><i>PSO is transitioning from Western Power's XA21 platform to the AEMO eTerra Energy Management System, including a new Demand Forecasting System for the WEM.</i></p>

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DER Roadmap: DER Register	Complete	The DER Register project is now closed. All AEMO systems are up and running and data has been received for most of the existing DER installations. Some data quality and completeness issues remain for existing installations, and collection of data for new installations is not providing the complete data set. AEMO is actively working with Western Power to support improvements to data. Further work is required for data collection from electrical contractors via Buildings and Energy (Energy Safety), and AEMO will revisit the project if required to support the establishment of these systems.	DER Roadmap
DER Roadmap: Technology Integration	G	<p>The Technology Integration project is focusing on developing and testing dynamic models for DER and load to represent system performance during disturbances. Interrogation of DER performance during disturbances continues as system events occur to continue to build on our understanding of how DER and load perform. AEMO's contribution to additional DER Roadmap actions (such as UFLS) is also progressing in line with an agreed work plans with Western Power and EPWA.</p> <p>AEMO has been supporting EPWA and Western Power to consider the management of low load conditions including DER related contingencies during these conditions. Key AEMO experts involved in this project are also working across both WA and the NEM to investigate and understand these system security challenges during low load conditions.</p>	DER Roadmap
DER Roadmap: DER Orchestration Pilot	A	<p>AEMO vendors are undertaking detailed design and commencing build, with co-design of project test scenarios underway. Partners have agreed on test priorities for market services alongside network services. Partners have agreed a high level technical delivery plan that commences the trial from December as a minimum viable product. AEMO's test and research plans are under development.</p> <p>AEMO's amber status reflects status of the build with regards to the MVP go-live timeline, although AEMO expects this delay is recoverable and will not risk MVP delivery.</p> <p>The Symphony team has also been actively working with the Project EDGE team in the NEM to align where efficiencies are possible.</p>	DER Roadmap "...to begin building, testing and evaluating options to facilitate DER integration across the WEM and SWIS"
DER Roadmap: DER Participation	G	AEMO has made a significant contribution to provide considered options for market participation and progress against DER Roadmap actions is now dependent on EPWA. The project team has been focusing on considering design arrangements under WEM Reform and research questions to incorporate into Project Symphony and considering delivery of DER Roadmap Action 30 in the AR6 period.	DER Roadmap