AEMO Project Status Update

Presented to WA Electricity Consultative Forum

14 April 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
Reserve Capacity Mechanism (RCM) Pricing	G	• Phase 1 was completed in October 2020 (Trade Declaration, Assignment of Capacity Credits, DSM Security and the Reserve Capacity Price) • Phase 2 (RC Testing) is expected to be deployed to Market Trial on 27 April and Production on 12 May 2021. Further information will be available in the Release Notes. • Phase 3 (CC Allocation, Settlements) is forecast to be finalised by August 2021.	*Implementation of the RCM Pricing Rule Changes gazetted by the Minister of Energy on the 22 February 2020.*
WEM Reform (Foundation Reg Frameworks)	A Time	• AEMO has continued to support ETIU's market/regulatory design efforts with focus on finalising scope and timeline for delivery of Tranche 4 and 5 elements • AEMO now has seven of ten implementation projects in execution (GPS, Constraints, WEMDE, System Planning, Digital Platform, Settlements and RCM) – Registration, Settlements Reform and STEM due to be initiated in line with rule completion and/or resource availability from project roll-offs • Go Lives on track for GPS (May 2021), Settlements Enhancements (June 2021) and Constraints (July 2021) • Vendors have commenced on development of Bids and Offers solution and RFQs issued for both the WEMDE Dispatch Engine and RCM (Phase 1) Projects • Two WEM Reform Implementation Group (WRIG) meetings were held on 25 February and 25 March with advancement of the Joint Industry Plan, further discussion on the Market Test/Trial Strategy and Market Readiness and Engagement Strategy and consultation on a number of Procedure Topics - next WRIG scheduled for 29 April • New WEM Market Design Summary document advanced with draft to be completed in April and target publication in May 2021 • AEMO completed an internal review of Tranche 0-3 Rules and implementation plan options and believe there is scope to defer some system implementation and/or elements of complementary market design (i.e. not core components of SCED, facility bidding, new ESS frameworks, 5-min dispatch) to de-risk delivery. Engaging with ETIU in advance of planned discussions with industry via WRIG.	*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.*

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Power Systems Operations (PSO)	A Time	PSO continues to approach system (technical) readiness. Minor delays have been experienced due to competing resource availability with some operational matters taking priority. A majority of project deliverables are now in production, awaiting business readiness dependencies. This follows on from the proposed staged implementation approach, commencing parallel use of applications in the control-room as well as with forecasters/planners. Training is progressing with the release of additional modules seeing motivated engagement with the control room users. The final module is undergoing development and will be released in line with trainee availability. There is a need to acknowledge the ongoing efforts of the controllers in balancing their training outcomes with BAU, as well as contributing toward project and training deliverables whenever needed. Final system readiness is scheduled for completion by the end of April, transitioning into operational support and awaiting business readiness in Q3.	*Power System Operations (PSO) project will establish a new Energy Management System and Demand Forecasting System for the WEM.* *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.*

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DER Roadmap: DER Register	G	The DER Register project is moving to closure after establishing APIs for AEMO to receive the DER data from Western Power. 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, although AEMO expects these will be resolved over time. The fist iteration of the public dashboard is live in the national DER Register system and will be accessible from the WEM Data dashboard by the end of the April.	*DER Roadmap.*
DER Roadmap: Technology Integration	G	The Technology Integration project is focusing on the investigation of the performance of existing DER during system disturbances. This analysis is now being used to develop dynamic models of DER and load that AEMO needs to apply to understand system security performance. This work has been accelerated and has been progressing to schedule, also now informing broader investigation on system security during low load conditions. Additional activities tracking to schedule include reviewing UFLS arrangements with Western Power. Other activities commencing include standards for DER control and communications and considering system restart in light of DER performance.	*DER Roadmap.*
DER Roadmap: Project Symphony	G	Project design progressing with Western Power and Synergy, tracking on schedule against EPWA timelines. Detailed market use cases have been developed to enable the suite of market services to be tested, alongside network support services based on dispatch instructions to the aggregator from the market operator. Current focus includes the development of initial trial platform deliverables for commencement, test plans, vendor engagement and resource / recruitment planning.	*DER Roadmap*
DER Roadmap: DER Participation	G	AEMO has been supporting ETIU in consideration of market arrangements for DER Participation and identifying and mapping dependences within Project Symphony. The current focus includes the consideration of *possible* arrangements, including metering and telemetry, and drawing on lessons learned from other active projects.	*DER Roadmap*